

Biomethane as an alternative transport fuel

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Objectives

Introduction to STX

Overview of regulations

European transport market

Biomethane in transport

Next steps

2005
Kyoto
protocol
Start of STX

STX

2006
Physical
fuels and
feedstocks
desk

STX

2012
First STX
biomethane
trade, in
Germany

STX

2017
Switch from
broker to
trader

STX

Today
Officially
joining with
Vertis

STX
Vertis

STX offices
HQ Amsterdam
Gothenburg
New York
Singapore
Hamburg
Lyon

Vertis offices
Brussels
Budapest
Madrid
Warsaw



● - STX
● - Vertis

STX

400 employees

30+ nationalities

80+ products traded

EUR 150mn+ equity

10 offices globally
(including Vertis)

STX Renewable Gas Team highlights

- Trade **over 4 TWh of biomethane** certificates annually
- Founding member of ERGaR
- **Pioneer of cross-border biomethane trades** in Europe
- We currently trade biomethane in 15 countries
- Deep biomethane market access
- 4000+ active trading counterparties across all products
- Physical gas trade and mass balancing
- Creative financing solutions and deal structuring



STX



What are we providing to the Biomethane market?

- We are a **pure-play environmental commodities** trader
- Our **diverse portfolio** allows us to service all products along the value chain, including captured CO2, biofuels, and blending tickets
- We **help consumers bridge the transport compliance gap** by sourcing novel products through global supply chains
- We advise regulators on how to structure markets
- We trade principal, providing liquidity and reliability to illiquid markets

Overall with the aim of bringing more renewable energy to market



Renewable Energy Directive targets will rise

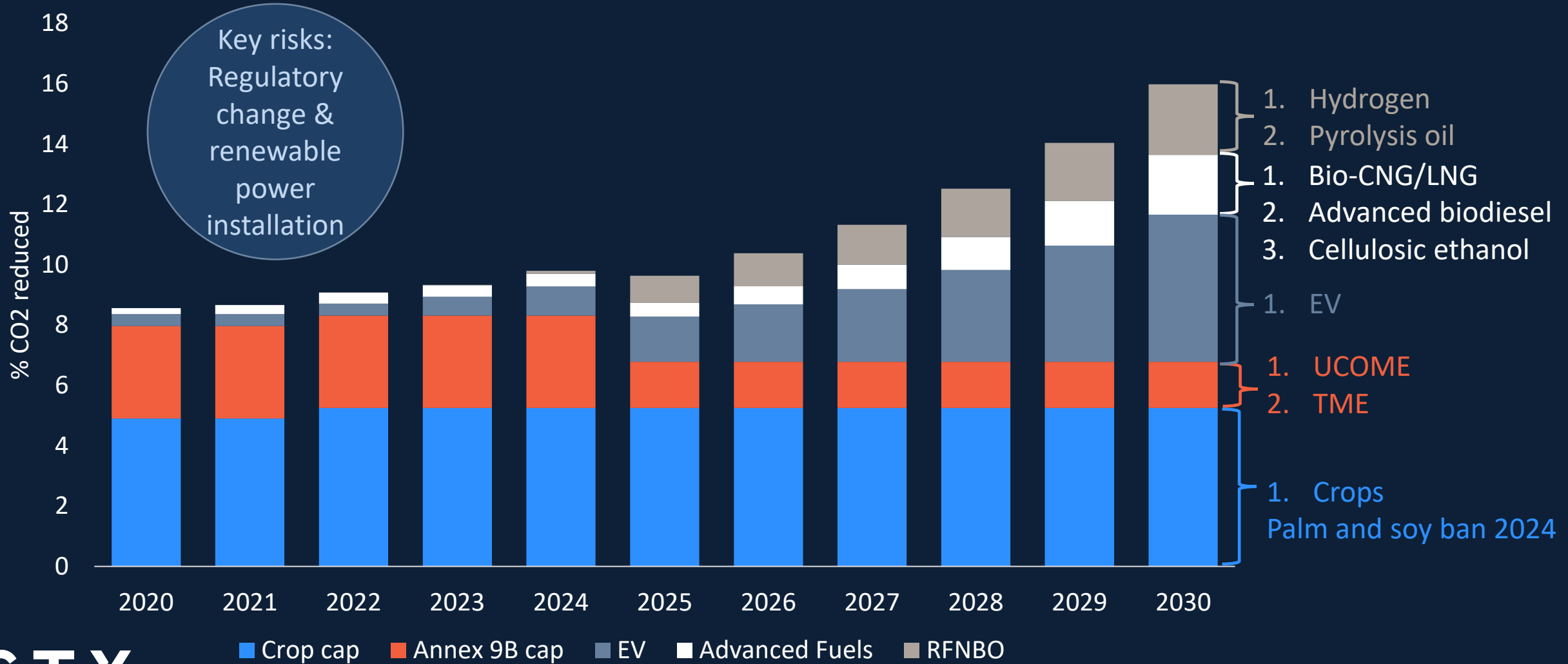
Key risk:
limited
feedstock,
unproven
technologies

Key risk:
competition
across road,
marine and
aviation

	RED II			RED III			
	Renewable share	Advanced biofuels	Double counting	GHG reductions	Advanced biofuels	RFNBOs	Double counting
2022		0.2%	Yes		0.2%		Yes
2025		1%	Yes		0.5%		No
2030	14%	3.5%	Yes	16%	2.2%	2.6%	No

Advanced fuels and EV are key to meet RED III targets

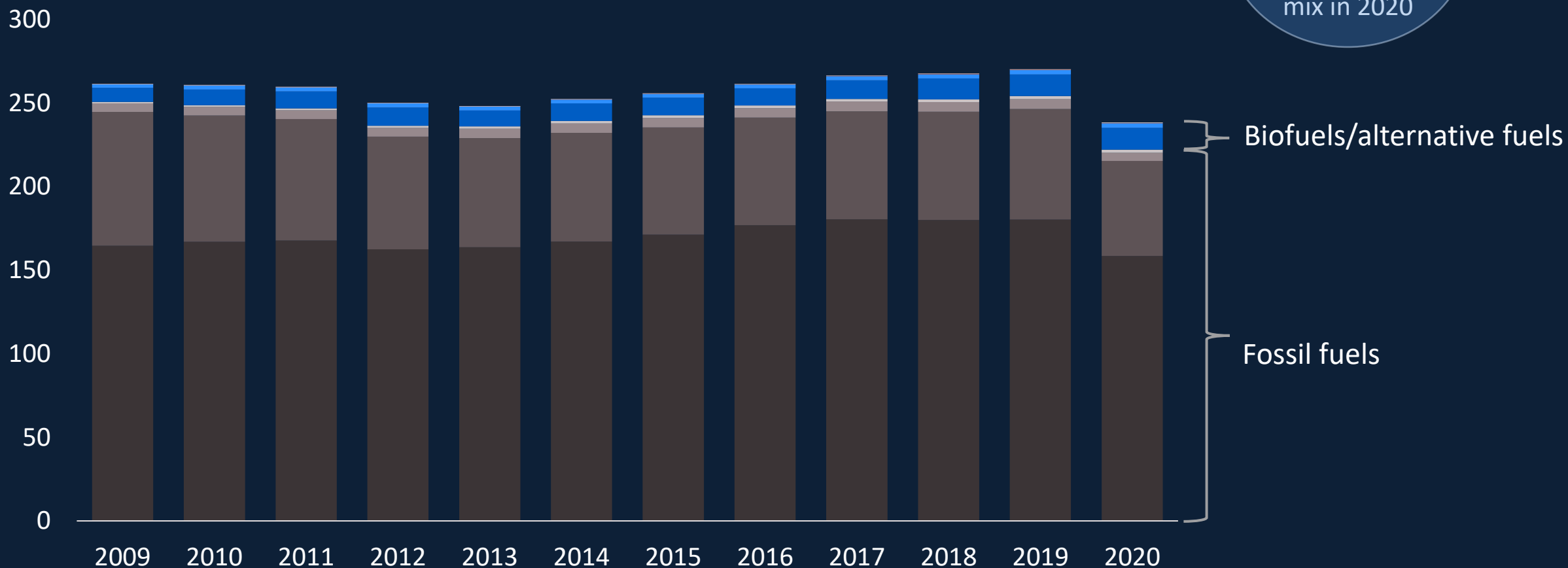
CO2 reductions in transport sector



EU road transport market – fuel mix

EU 27 road fuel mix (mt oil equivalent)

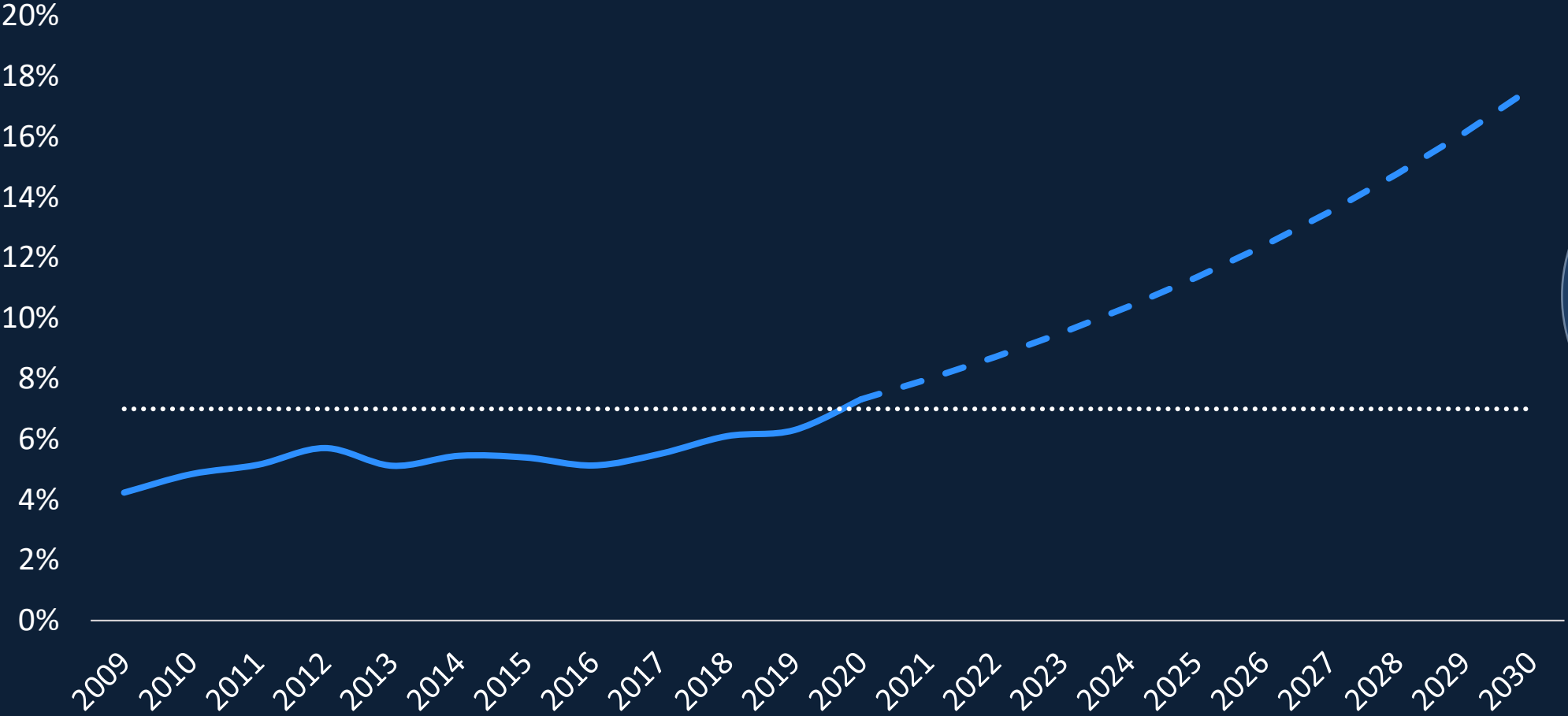
CNG/LNG was 0.01% of EU 27 road fuel mix in 2020



- Fossil diesel
- Fossil gasoline
- LPG
- Natural Gas
- Biodiesel
- Biogasoline
- Biomethane
- Electricity
- Others

EU road transport market – renewables blending

EU renewable fuel blending



Growth forecast is illustrative and assumes a steady CAGR to 2030 targets

Unclear what impact marine and aviation will have on road fuel blending

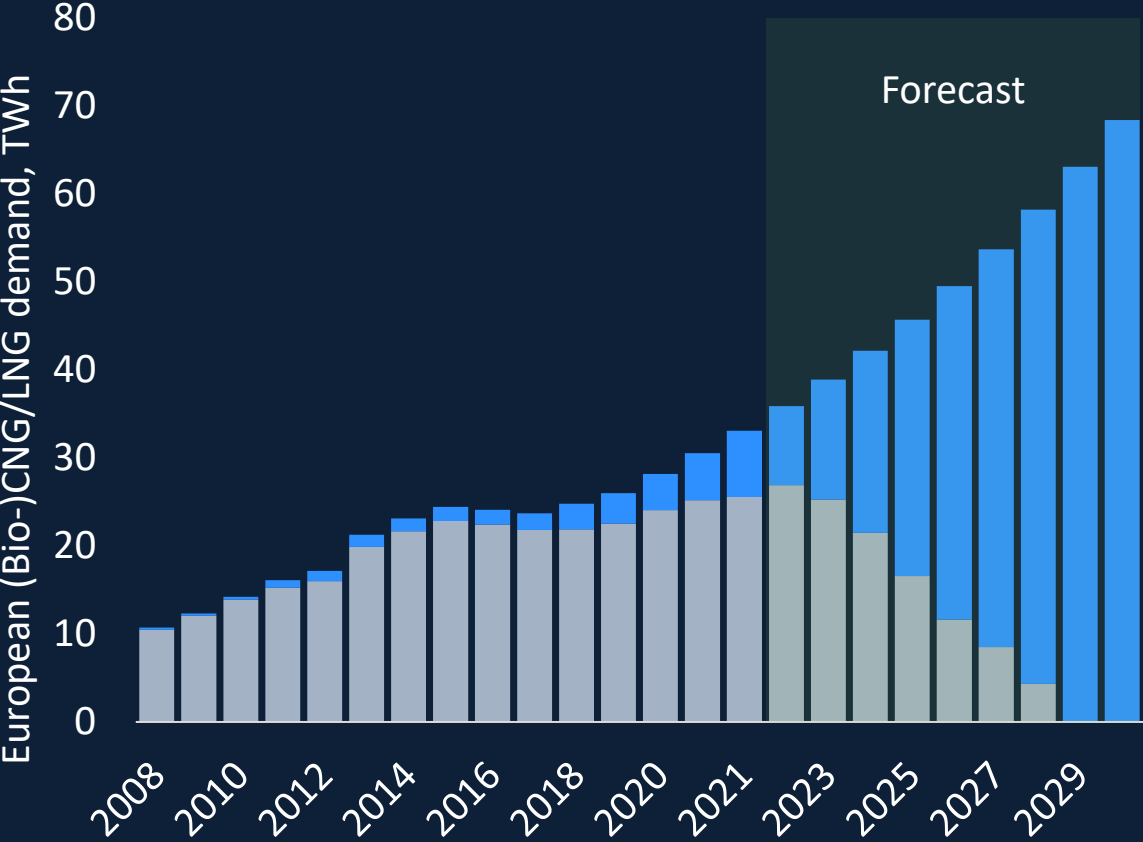


— Renewable fuels blended - - - Projected growth to hit 2030 target Blend wall

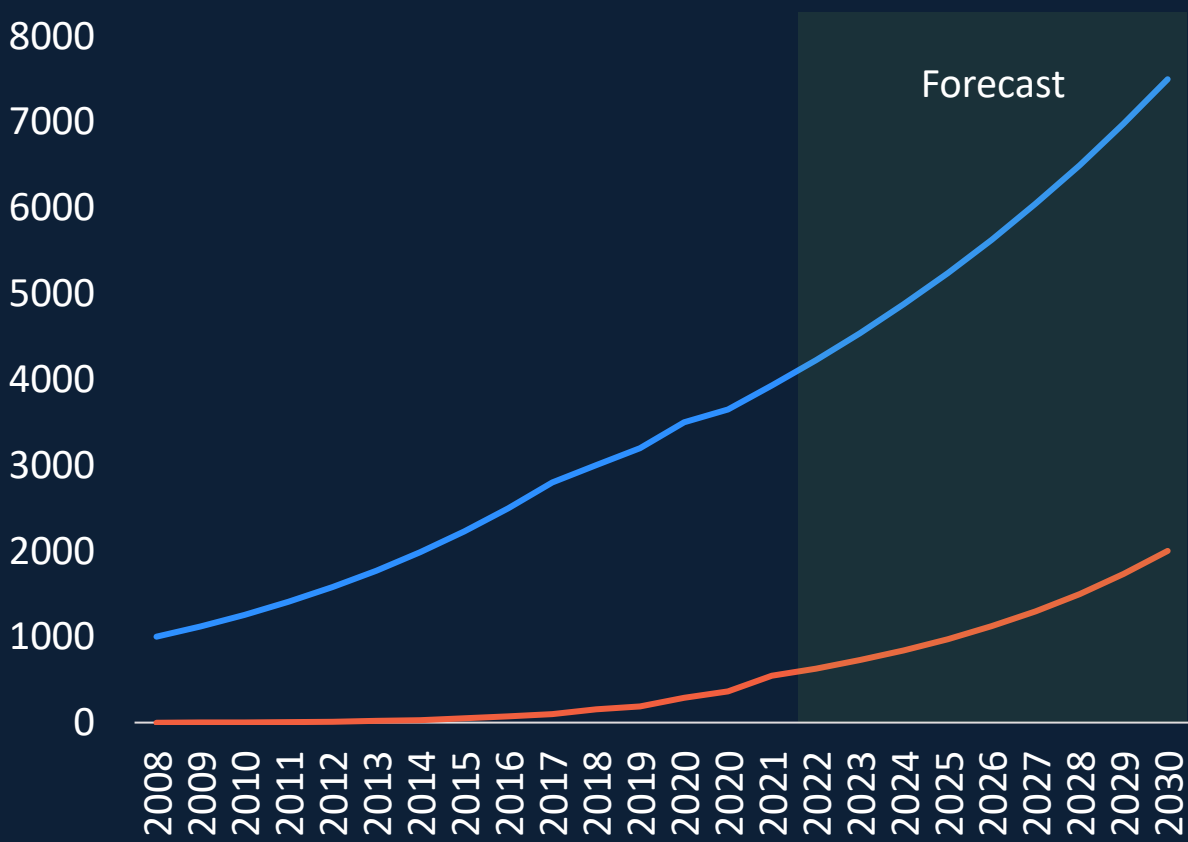
Source: Eurostat, RED III, STX

European Bio-CNG/LNG market – forecast to 2030

Transport sector growth forecast



CNG/LNG station deployment forecast



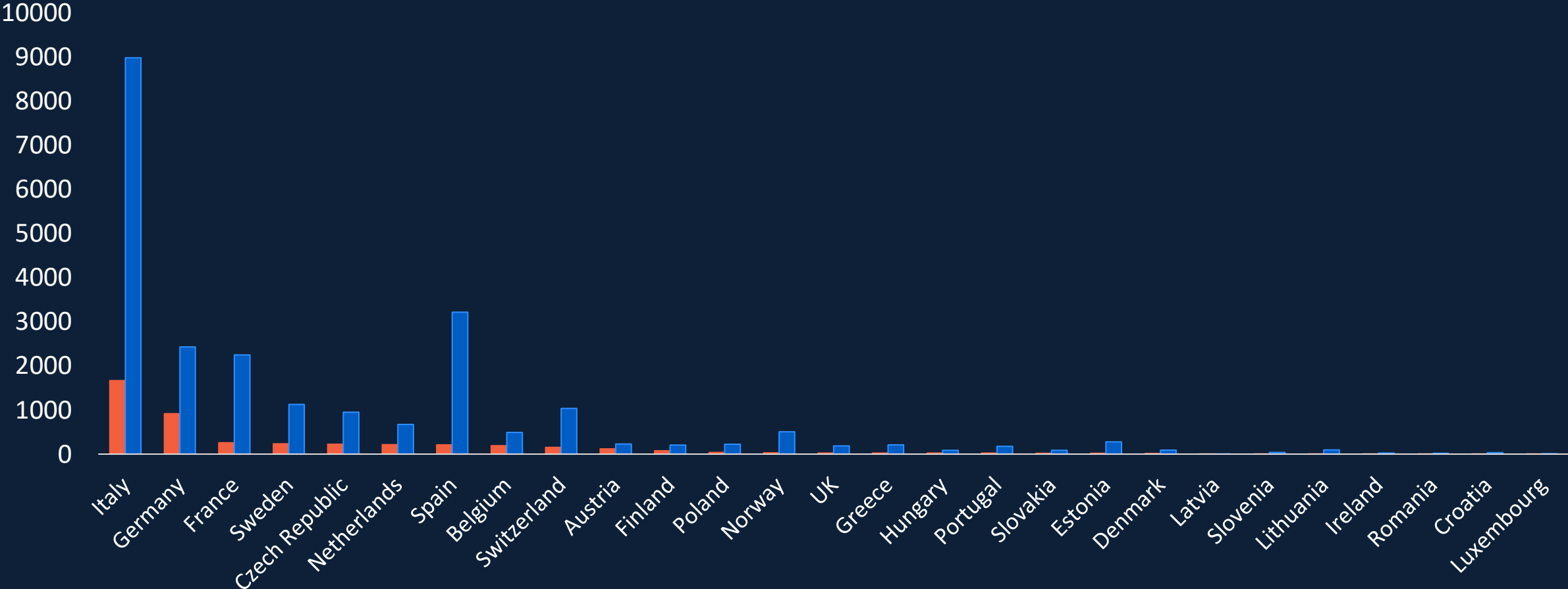
Fossil CNG/LNG consumption
 Bio-CNG/LNG consumption

CNG stations
 LNG stations

Sources: NGVA, STX

More infrastructure is needed to grow the CNG/LNG fleet

Fueling station infrastructure and road CNG/LNG consumption 2020



■ Fueling stations ■ Road CNG/LNG demand

Sources: NGVA, Eurostat

For more information on the topics from the presentation

Or any of below;

- Liquidity and market access to buyers and sellers
- Bespoke deal structures/financing to suit your needs
- Mechanisms to close compliance gap in biofuels
- Project partner on financing conversion from biogas to biomethane

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